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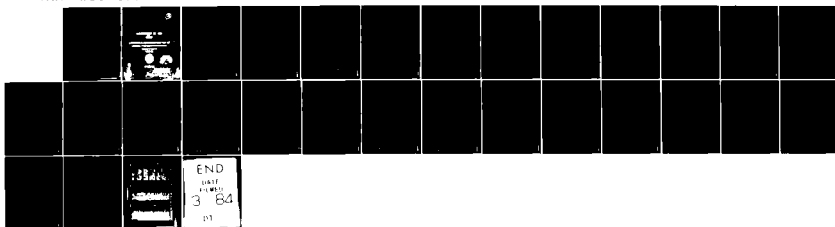
DEPARTMENT OF THE ARMY JUSTIFICATION OF ESTIMATES FOR  
FISCAL YEAR 1985 PR. (U) DEPUTY CHIEF OF STAFF FOR  
RESEARCH DEVELOPMENT AND ACQUISITION. FEB 84

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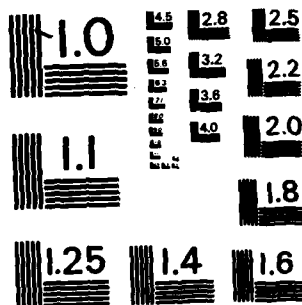
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO. <b>AD-A138192</b>	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) (In 6 parts) Department of the Army Justification of Estimates for Fiscal Year 1985, Submitted to Congress February 1984, Procurement Programs, Aircraft, Missiles, Weapons & Tracked Cbt Veh., Ammunition, Other Procurement & Constr Programs		5. TYPE OF REPORT & PERIOD COVERED Army Procurement Budget Justification, FY 1985
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14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE February 1984
		13. NUMBER OF PAGES 258 (including all parts)
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16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Army Procurement Programs Budget Justification Books covering Aircraft, Missiles, Weapons and Tracked Combat Vehicles, Ammunition, Other Procurement, Army Appropriations programs and Construction programs submitted by the Army to Congress February 1984 for Fiscal Year 1985.		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) In justification of programs requested, this document, in separate volume for each of the five Procurement Appropriations, and one separate volume for Construction Programs, provides backup data for the Army Budget submission for FY 1985. Included are Summaries of Requirements, Program and Financing Statements and Selected Data Sheets. (These volumes are unclassified).		

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February 1984

**FORWARD**

The DD Forms 1391 contained herein provide the justification data required to support the Fiscal Year 1985 Army Procurement Budget Estimates as submitted to Congress in February 1984. Projects for the Missile Procurement, Army appropriation are reflected on pages 1-2, for the Procurement of Weapons and Tracked Combat Vehicles, Army appropriation on pages 3-9, and for the Procurement of Ammunition, Army appropriation on pages 10-22.

DEPARTMENT OF THE ARMY  
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1985  
SUMMARY

P-1 Line No. 22:

Appropriation: Procurement of Missiles, Army

Activity 5 - Support Equipment and Facilities

<u>INSTALLATION</u>	<u>PROJECT NO.</u>	<u>PROJECT TITLE</u>	<u>COST ESTIMATE (Millions)</u>	<u>PAGE NO.</u>
Redstone Arsenal Huntsville, AL	3852169	Fire Protection, Thiokol	0.250	1
Redstone Arsenal Huntsville, AL	3852209	Modernization of Rocket Motor Loading Facility, Thiokol	7.8	2

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DEPARTMENT OF THE ARMY  
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1985  
SUMMARY

P-1 Line No: 29

Appropriation: Procurement of Weapons and Tracked Combat Vehicles, Army  
Activity 1 - Tracked Combat Vehicles.

<u>Installation</u>	<u>Project No.</u>	<u>Project Title</u>	<u>Cost Estimate (Millions)</u>	<u>Page No.</u>
Lima Army Tank Expansion Phase II, Ohio	4855030	Lima Expansion, Phase II	13.5	3
Detroit Arsenal Tank Plant, Warren MI	4856036	Production Support and Equipment Replacement for the DATP	1.1	5
* Stratford Army Engine Plant, Stratford, CT	7858174	Spt-Facility Rehabi- litation for the Stratford Army Engine Plant	0.3	7
Mainz Army Depot (MZAD) Mainz, Germany	4852006	Modernization of MZAD Complex	13.9	8

- \* This plant is also used to produce the AGT 1500 turbine engines used in the UH-1, AH-1, and CH-47 Helicopters and the OV-1 Aircraft.

DEPARTMENT OF THE ARMY  
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1985  
SUMMARY

P-1 Line No: 122

Appropriation: Procurement of Ammunition, Army

Activity 2 - Production Base Support

<u>ARMY AMMUNITION PLANT (AAP)</u>	<u>PROJECT NO.</u>	<u>PROJECT TITLE</u>	<u>CONSTRUCTION COST ESTIMATE (MILLIONS)</u>	<u>PAGE NO.</u>
Holston AAP, TN	5855328-15	Access Platform	.230	10
	5852199	Coal Handling	7.000	11
	5852447	Modify RDX/HMX Line	7.800	12
	5852439	Productivity Improvements	.910	13
	5852054	Modify Comp C-4 Fac	3.900	14
Indiana AAP, IN	5852159	Prop Charge Bldg	1.900	15
Iowa AAP, IA	5855333-13	Blow Out Roofs	.690	16
	5855333-16	Environ Control Sys	1.100	17
Louisiana AAP, LA	5852507	Chemical Lab	1.600	18
Radford AAP, VA	5852229	120mm Prop Blend	.460	19
	5855326-13	Replace Barricades	2.150	20
	5855326-21	Replace Barricades	.330	21
Scranton AAP, PA	5852359	Water Distr Sys	2.050	22

Ammunition Production  
Base Construction

TOTAL      \$30.120



1. COMPONENT Army		FY 1985      MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 1984	
3. INSTALLATION AND LOCATION Redstone Arsenal, AL      MICOM			4. PROJECT TITLE PS&ER Thiokol - Fire Protection		
5. PROGRAM ELEMENT Production Base Support		6. CATEGORY CODE 226-45	7. PROJECT NUMBER 3852169-4	8. PROJECT COST (\$000) \$250	

#### 9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
<u>Primary Facility</u>				223
Fire Protection			LS	(223)
Subtotal				223
Contingency (5%)				11
Contract Cost				234
Supervision, Inspection & Overhead (5%)				13
Total Request				247
Total Request (Rounded)				250
(Installed Equipment - Other Appropriations)				(0)

#### 10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project consists of installation of Halon 13 fire protection systems in Buildings 7376, 7620, 7641, 7650 and 7661 and installation of water sprinklers in the area of building 7641 not covered by Halon 13 system.

#### 11. REQUIREMENT FOR CONSTRUCTION PROJECT:

These buildings house electronic equipment, irreplaceable rocket motor design and performance records, a communications center and classified document storage that must be protected from fire.

#### 12. CURRENT SITUATION:

The irreplaceable records and expensive equipment is housed in buildings without adequate fire protection.

#### 13. IMPACT IF NOT APPROVED:

Failure to provide this project will subject expensive equipment and irreplaceable records to loss by fire.

1. COMPONENT Army		FY 19 85    MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 1984	
3. INSTALLATION AND LOCATION Redstone Arsenal, AL    MICOM			4. PROJECT TITLE PSR/Mod: Modernization of Rocket Motor Loading Facility, Thiokol		
5. PROGRAM ELEMENT Production Base Support	6. CATEGORY CODE 2591	7. PROJECT NUMBER 3852209	8. PROJECT COST (\$000) 7,837.8		

**9. COST ESTIMATES**

ITEM	U/M	QUANTITY	UNIT COST	COS. (\$000)
1. Utilities & Roads	LS			499.6
2. Building 7663	SF	25,000	200.32	5,008.1
3. Building 7664	SF	7,890	78.72	621.1
4. Building 7654	SF	7,460	143.81	1,072.8
5. Building 7662	SF	1,160	190.26	220.7
Subtotal				7,422.3
SI&A				415.5
TOTAL Project Cost				7,837.8

**10. DESCRIPTION OF PROPOSED CONSTRUCTION**

This project consists of five subprojects which are to provide modern facilities designed for rocket motor production. These production efficient buildings will replace facilities which were designed and built in 1930-1942 for artillery shell loading. Four of the sub-projects are for buildings while the fifth provides utilities, access roads, and service areas.

**11. REQUIREMENT FOR CONSTRUCTION PROJECT:**

This project is for the replacement of four 40 year old former artillery shell loading buildings which have now deteriorated beyond further economical maintenance and repair. The buildings are vital to the efficient production of small rocket motor's. Increasing requirements for higher impulse propellants mandate different safety requirements and production flow to efficiently produce small rocket motors utilizing minimum smoke 1.1 hazard type propellants. Building 7763 replacement will be capable of manufacturing either conventional 1.3 hazard propellant motors or the low/min smoke 1.1 hazard type motor. It will accommodate motors of the HELLFIRE, VIPER, and STINGER size motors up to and including the 6 ft CHAPPARRAL type motor at manufacturing rates of approximately 900 such motors per month. Building 7654 will provide a modernized facility capable of manufacturing rocket motor ignition systems for all size rocket motors, either conventional or low/min smoke types. Building 7664 is a parts and tooling cleaning facility with a gritblast area which supports all small rocket motor production. This facility provides cleaning process for the propellant mixing and grinding equipment used to reproduce rocket motor propellants. The gritblast facility contained in this building mechanically cleans the interior and exterior of the rocket motor cases to assure that subsequent processing will provide a quality rocket motor. Building 7662 is a small propellant mixing facility which produces specialized propellant for ignitions and pyrogen manufacturing.

1. COMPONENT ARMY		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 1984	
3. INSTALLATION AND LOCATION Lima Army Tank Plant, Lima, Ohio			4. PROJECT TITLE Lima Expansion, Phase II		
5. PROGRAM ELEMENT		6. CATEGORY CODE 224 10	7. PROJECT NUMBER 4855030	8. PROJECT COST (\$000) \$13,541	
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)	
<b>Primary Facility</b>					
Expansion btwn B147 and B186	SF	113,118	59.20	13,541 (6,697)	
Expansion, Section A, North Side	SF	21,070	108.69	(2,290)	
Expansion, Section B, North Side	SF	37,781	76.89	(2,905)	
Expansion, Section C, North Side	SF	5,879	66.34	( 390)	
<b>Subtotal</b>				12,282	
Contingency (5.00%)				614	
Total Contract Cost				12,896	
Supervision Insp and O'head (5.00%)				645	
<b>Total Request</b>				13,541	
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION</b>					
<p>The project will provide for site preparation, building expansion, and facility expansion necessary to support increases in production. Each building addition will include insulated metal walls, metal roof decking, built up roofs, reinforced concrete floors, and interior lighting. Buildings will also include ventilation, heating, cooling, all required plumbing, and electrical telephone, and fire protection equipment. Current building code requirements will apply including exits, restrooms, and fire protection.</p> <p>Building expansion between Bldg. 147 and Bldg. 186 will also require along with the primary facilities, relocation of a section of track No. 19, relocation of M-1 fuel storage, widening of the access road and truck "turn-around" to the receiving dock, demolition of concrete and relocation of water, sewer, fire sprinkler mains in the area between the two buildings, and a new concrete roadway from Bldg. 186 to the water test for tank traffic to the water test and the test track.</p> <p>Building expansions in the other four areas generally require, in addition to building construction, demolition of pavement (either concrete or asphalt), and the relocation of utilities such as sewer, water, fire protection, and storm drainage.</p>					
<b>11. REQUIREMENT:</b>					
<p><b>PROJECT:</b> Provide 4 additions to building 147 for expansion of production area.</p> <p>Specific expansions provide additional resources in production areas as explained below.</p>					

1. COMPONENT ARMY	FY 1985      MILITARY CONSTRUCTION PROJECT DATA	2. DATE February 1984
3. INSTALLATION AND LOCATION Lima Army Tank Plant, Lima, OH		
4. PROJECT TITLE Lima Expansion, Phase II	5. PROJECT NUMBER 4855030	
<p>Expansion between Bldg. 147 and Bldg. 186 provides for a more efficient shipping and receiving dock and increased space for material staging, eliminates the congestion currently tolerated in Test and Adjust, and adds area to Turret Appurtenance Weld.</p> <p>The expansion, Section A, at the north side of Bldg. 147 will house additional shot blast machines. These shot blast machines are required to remove rust from steel plates stored outside in the weather.</p> <p>The expansion, Section B, at the north side of Bldg. 147 is required for five (5) side blast milling machines and tank nose sub-assembly weld. Not only does this addition provide more space for additional machines and fixtures, but it also locates these functions closer to where the parts will be used.</p> <p>The fourth expansion, Section C, at the north side of Bldg. 147 will house Safety and Medical. The area vacated in the plant by Safety and Medical will become office space for production personnel.</p> <p>Generally, the areas vacated by activities moving into the new additions will be used to expand the adjacent functions.</p> <p><b>REQUIREMENT:</b> This project is required to expand facilities at LATP to provide for the possible production of 150 M1 tanks per month.</p> <p><b>CURRENT SITUATION:</b> Presently, facilities at LATP are producing 60 hull and turret structures per month and assembling 30 tanks per month on a 5 day, multi-shift basis. The Detroit Arsenal Tank Plant is assembling 30 tanks per month. The existing Lima facility is capable of supporting a structure build rate of 90 per month and a tank assembly rate of 45 per month on a 3-8-5 shift basis.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Higher production rates cannot be realized without increased production floor area at LATP. This project will provide the required floor space to permit LATP to surge to a production rate of up to 150 hull and turret structures and to assemble 75 tanks per month. Cancellation or delay of this project or any portions contained therein will cancel or delay the date at which the M1/M1E1 tank system may be produced at surge production rates in excess of 90 tanks per month.</p>		

1. COMPONENT ARMY		FY 19 85    MILITARY CONSTRUCTION PROJECT DATA			2. DATE February 1984	
3. INSTALLATION AND LOCATION Detroit Arsenal Tank Plant (DATP) Warren, Michigan				4. PROJECT TITLE Production Support at the Detroit Arsenal Tank Plant		
5. PROGRAM ELEMENT		6. CATEGORY CODE 224 10		7. PROJECT NUMBER 4856036		8. PROJECT COST (\$000) \$1,142
9. COST ESTIMATES						
ITEM				U/M	QUANTITY	UNIT COST
PRIMARY FACILITY						COST (\$000)
Expand Material Lab				LS		989
Electrical Substation in the Main Production Bldg				LS		(741)
Subtotal						(248)
						989
Contingency (10.0%)						99
Total Contract Cost						1,088
Supervision Insp and Overhead (5.0%)						54
Total Request						1,142
10. DESCRIPTION OF PROPOSED CONSTRUCTION    This project will provide a new material control laboratory for chemical and metallurgical testing and it will provide for the installation of a new electrical sub-station in the main production building at the Detroit Arsenal Tank Plant.						
11. REQUIREMENT						
PROJECT: Provides a new materials laboratory and a new electrical substation.						
REQUIREMENT: This project is required to construct a new materials laboratory which will eliminate overcrowding and to provide an electrical transformation system which will remove the highly inductive transient loading from the M1 tank machining area.						
CURRENT SITUATION: The present laboratory is overcrowded with no space for new equipment already on hand and no storage space for materials being tested. The electrical circuits are inadequate and environmental conditions are marginal. Improvements are required if the laboratory is to continue in operation.						
<p>Almost the entire M1 Machining Area, the Bay bridge cranes and the M60 Hull and Turret Welding Areas are connected to Sub-Station #4. The highly inductive loading of the bridge cranes and welding equipment produce electrical transients or spikes of voltage which become superimposed upon the line voltage supplying all these areas. Computers and computer controlled equipment cannot tolerate the magnitude of transients generated by highly inductive devices. The proper programming of these "pulses" constitutes the "intelligence" of the computer. However, the computer cannot differentiate between an intelligent pulse and a spurious pulse (transient).</p>						

1. COMPONENT ARMY	FY 19 85    MILITARY CONSTRUCTION PROJECT DATA	2. DATE February 1984
3. INSTALLATION AND LOCATION: Detroit Arsenal Tank Plant (DATP), Warren, Michigan		
4. PROJECT TITLE Production Support at the Detroit Arsenal Tank Plant		5. PROJECT NUMBER 4856036
<p><b>IMPACT IF NOT PROVIDED:</b> If the laboratory remains in its present location and condition there will be inefficient testing of materials and delays in determining production problems. The crowded working conditions will cause testing errors since test set-ups must be continually set-up and turn-down due to inadequate space.</p> <p>If this subproject is not approved and excessive amount of machine "downtime", extraordinary maintenance expenses and difficulty in sustained and/or accelerated production schedules.</p>		

1. COMPONENT Army		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 1984	
3. INSTALLATION AND LOCATION Stratford Army Engine Plant Stratford, CT			4. PROJECT TITLE SPT - Facility Rehabilitation for the Stratford Army Engine Plant		
PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER 7858174		8. PROJECT COST (\$000) 257	

#### 9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
#'s				
DESCRIPTION				
1/6 Exterior Lighting				56
1/17 Substation #70 B6				167
SUBTOTAL				223
Contingency (9.9%)				22
Total Contract Cost				245
Supv, Insp & Overhead (5%)				12
TOTAL Request				257

#### 10. DESCRIPTION OF PROPOSED CONSTRUCTION

Mount low pressure sodium lights on exterior of buildings and install one pole with light. Replace existing switchgear and upgrade the transformer at sub-station #70 (Building 6) to increase capacity.

#### 11. REQUIREMENT:

**PROJECT:** Install new low pressure sodium lighting and upgrade substation #70 (Building 6).

**EQUIPMENT:** This project is required to complete the upgrade of the plant lighting that is necessary for around-the-clock manufacturing. It is also required to upgrade electrical sub-station #70 (Building 6) which is not capable of supporting increased production support testing requirements.

**PRESENT SITUATION:** The existing lighting does not provide minimum lighting required for around-the-clock manufacturing necessary to meet production requirements. The switchgear is inefficient and does not meet current safety requirements. Present transformer capabilities will not allow efficient testing to be accomplished at the production support testing facility.

**IMPACT IF NOT PROVIDED:** If this project is not approved the manufacturing and production support testing in support of the T53, T55 and the AGT 1500 turbine engines used in the UH-1, AH-1, and CH-47 helicopters and OV-1 aircraft and the M1 tank will be adversely affected. Specifically, the manufacturing operation will continue to be constrained during non-daylight hours contributing to inefficient operation and associated safety risks. The production support testing facility will not be able to support necessary simultaneous testing and full scale testing will be severely restricted.

1. COMPONENT ARMY		FY 19 85 MILITARY CONSTRUCTION PROJECT DATA			2. DATE February 1984	
3. INSTALLATION AND LOCATION Mainz Army Depot, Germany			4. PROJECT TITLE Alteration Modernization Expansion of Mainz Army Depot (MZAD)			
5. PROGRAM ELEMENT		6. CATEGORY CODE 821 15	7. PROJECT NUMBER 4852006		8. PROJECT COST (\$000) 13,941	
9. COST ESTIMATES						
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
PRIMARY FACILITY					12,467	
Eng & Trans, Bldg 311		SF	33,400	\$ 51.20	( 1,710)	
Alt Light Vehicle Maint Complex		SF	85,860	25.90	( 2,224)	
Utilities & Hardstands		LS	---	---	( 680)	
Tank Test Track		SY	17,160	153.79	( 2,639)	
Alt Bldg 6008		SF	51,177	9.89	( 506)	
Maint Shop for Turrets		SF	32,000	65.38	( 2,092)	
Track Assy & Disassy		SF	8,300	45.78	( 380)	
Alteration of Bldg 6011 for the Sgt York		SF	21,477	104.11	( 2,236)	
Subtotal					12,467	
Contingency Percent (5%)					623	
Total Contract Cost					13,090	
Supervision, Inspect & Overhead (6.5%)					851	
Total Request					13,941	
Total Request (Rounded)					13,900	
Installed Equipment - Other Appropriation					( 2,359)	
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION The primary facility to support expansion of MZAD will require dismantling of existing buildings, modification to other existing buildings, annexes and new facilities. The primary facilities work will be performed at the site of the original depot and at the newly acquired site of the bus plant. Basic construction will be of reinforced concrete skeleton or steel frame construction and in all cases will be site adapted to existing facilities. In addition, the project will include required utility services, emergency lighting, crane facilities, water purification treatment, compressed air fire alarm and extinguishing system, partition walls and roof modifications. The hardstands and foundations will be of reinforced concrete. The tank test track will require demolition of an existing curve and construction of a straight section, service basin and bump course.</p> <p>11. REQUIREMENT:</p> <p><b>PROJECT:</b> Construction and modification of facilities at Mainz Army Depot to accomodate expanded requirements.</p> <p><b>REQUIREMENT:</b> As the Army's Force Modernization Program continues to be implemented throughout the USAREUR, the workload in depot level maintenance will also increase. This is due to the increased sophistication of the new systems, the increased equipment density within the Theater, the numerous items displaced to War Reserve or POMCUS status, and conversion to new equipment configurations. This will occur in all commodity areas. For most commodities, shipment to CONUS for repair is extremely costly. This is particularly true of Combat Vehicles which are bulky and heavy. In addition, CONUS repair requires that additional items, either end items or secondary items, be procured to increase the repair cycle float by the amount of the turn around required. The most economical approach to accomplish the expanding depot level workload for combat vehicles in USAREUR (and meet DARCOM's concept for depot level maintenance support in Europe) is to alter and expand the MZAD facility, thereby allowing sufficient space to overhaul/repair combat vehicles.</p>						



1. COMPONENT ARMY		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 1984										
3. INSTALLATION AND LOCATION Mainz Army Depot, Germany														
4. PROJECT TITLE Alteration Modernization Expansion of MZAD Army Depot				5. PROJECT NUMBER 4852006										
<p><b>CURRENT SITUATION:</b> The Mainz Army Depot is a very physically constrained facility. Part of the workload for the Weapon systems is presently being met through a subcontracting effort. The additional workload required for the repair/overhaul of the systems cannot be met without modernizing existing facilities by replacing existing temporary facilities with permanent structures, expanding the Mainz Mombach facility (formerly the Magirus-Deutz bus plant), and modernizing and expanding support facilities. Mainz is tasked with maintaining, at depot level, Army Combat/Tactical vehicles, missiles and Communication and Electronics in Europe. This project supports the combat vehicle mission. The only reasonable alternatives to utilizing Mainz is to transfer all repairable combat vehicles and components of vehicles in Europe to a CONUS depot or contractor for the repair/overhaul. These alternatives and the extremely costly maintenance float requirement for combat vehicles and components would cause the U.S. Government to lose all benefits to be gained from existing facilities and IPE at MZAD in relation to the combat vehicle fleet.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Should this project not be approved, Mainz would be unable to satisfy the repair/overhaul requirements. Failure to provide for the OCONUS maintenance of the USAREUR combat vehicle fleet will result in a significant degradation in the combat readiness of USAREUR or require costly second destination transportation of vehicles and components and necessitates having an extensive maintenance float in Europe. This facility project is necessary to meet an imminent demand for repair/overhaul capability. Delay of the projects will require that interim inefficient (and therefore costly) means be employed to attempt to satisfy the repair/overhaul requirements.</p>														
<table> <tr> <td>Estimated Construction Start:</td> <td>April 1985</td> <td>INDEX: 1434</td> </tr> <tr> <td>Estimated Midpoint of Construction:</td> <td>October 1985</td> <td>INDEX: 1487</td> </tr> <tr> <td>Estimated Construction Completion:</td> <td>April 1986</td> <td>INDEX: 1504</td> </tr> </table> <p>Estimated Costs Based on a 2.56 DM/\$1 Exchange Rate</p>						Estimated Construction Start:	April 1985	INDEX: 1434	Estimated Midpoint of Construction:	October 1985	INDEX: 1487	Estimated Construction Completion:	April 1986	INDEX: 1504
Estimated Construction Start:	April 1985	INDEX: 1434												
Estimated Midpoint of Construction:	October 1985	INDEX: 1487												
Estimated Construction Completion:	April 1986	INDEX: 1504												

1. COMPONENT <b>ARMY</b>		FY 1985 <b>MILITARY CONSTRUCTION PROJECT DATA</b>		2. DATE February 1984	
3. INSTALLATION AND LOCATION Holston Army Ammunition Plant, Kingsport, Tennessee			4. PROJECT TITLE Precipitator Access Platforms, Area-A		
5. PROGRAM ELEMENT 78011A		6. CATEGORY CODE 821	7. PROJECT NUMBER B363-64 (5855328-15)		8. PROJECT COST (\$000) 230
9. COST ESTIMATES					
ITEM		UNIT	QUANTITY	UNIT COST	COST (\$000)
<u>Primary Facility</u>					211
Steel Work (Gratings, handrail and kick plates, supports, catwalks, stairs, grating treads, misc. connections)				LS	(192)
Electrical & Lighting				LS	(19)
Subtotal					211
Contingency (5%)					11
Total Contract Cost					222
Supervision, Inspection & Overhead (5.5%)					12
Total Request					234
Total Request (Rounded)					230
(Installed Equipment - Other Appropriations)					(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Fabricate and install steel walkways, stairs and ladders and necessary support framing. Extend electrical circuitry and install safety lighting over the new access routes.					
11. REQUIREMENT					
PROJECT: Construct steel platforms and stairs to provide access to electrostatic precipitator equipment.					
REQUIREMENT: This project is required to provide safe working conditions at a central steam plant in Area-A and effect compliance with OSHA regulations.					
CURRENT SITUATION: At present, access to exterior electrostatic precipitator equipment requires workers to climb steel ladders that are more than 53 feet high. The access is required for inspection and maintenance of precipitator equipment. Inspections are required six times per day (twice on each of three shifts) and maintenance is necessary from 3 to 4 times per week. This is unsatisfactory from a safety standpoint, especially during the night shifts and during inclement weather. The proposed project will provide safe access ways and adequate lighting to enhance worker safety.					
IMPACT IF NOT PROVIDED: If this project is not approved, workers will continue to be exposed to hazardous working conditions and serious preventable accidents could occur.					
ADDITIONAL: This work is required by OSHA Regulation paragraph 1910-24[b].					

1. COMPONENT <b>ARMY</b>		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 84	
3. INSTALLATION AND LOCATION Holston Army Ammunition Plant, Kingsport, Tennessee			4. PROJECT TITLE Improve Coal Handling Facilities		
5. PROGRAM ELEMENT  78011A	6. CATEGORY CODE  821	7. PROJECT NUMBER B363-65 (5852199)	8. PROJECT COST (\$000)  7,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
Primary Facility					6,357
Improve Coal Handling Facilities at Steam Plants A and B				LS	(6,357)
Subtotal					6,357
Contingency (5 %) (Alteration & Retrofit)					318
Contract Cost					6,675
Supervision, Inspection & Overhead (5.5%)					367
Total Request					7,042
Total Request (Rounded)					7,000
(Installed Equipment - Other Appropriations)					2,000
10. DESCRIPTION OF PROPOSED CONSTRUCTION Improve coal handling facilities at the Area A and Area B Steam Plants. Includes construction of unloading areas, crushers, outdoor storage sites, belt conveyors and installation of passenger/freight elevators at both steam plants.					
11. REQUIREMENT					
PROJECT: Improve coal handling system at two steam plants.					
REQUIREMENT: Holston AAP is the sole source of RDX and HMX explosives and their several compositions. The increased steam requirement needed to support the scheduled expansion of production output of these explosives will, by FY 88, increase the coal handling requirements by almost 400%. Improvements to the coal handling systems are necessary to meet the planned increase in end-item output.					
CURRENT SITUATION: The existing systems are approximately 40 years old and require extensive and costly maintenance to support the present steam requirements. New coal handling systems are needed to reduce operations and maintenance costs, provide direct transfer of coal from storage piles to the steam plants, avoid double-handling of coal, avoid demurrage costs on RR coal cars, and provide capacity and reliability to support the increased production requirement.					
IMPACT IF NOT PROVIDED: If this project is not approved, the scheduled increases in RDX/HMX production cannot be achieved and FYDP goals cannot be obtained.					

1. COMPONENT <b>ARMY</b>		<b>FY 1985 MILITARY CONSTRUCTION PROJECT DATA</b>		2. DATE February 84	
3. INSTALLATION AND LOCATION Holston Army Ammunition Plant, Kingsport, Tennessee			4. PROJECT TITLE Modernize Explosive Production Facilities		
5. PROGRAM ELEMENT  78011A	6. CATEGORY CODE  226	7. PROJECT NUMBER B363-66 (5852447B)		8. PROJECT COST (\$000)  7,800	
9. COST ESTIMATES					
ITEM		UNIT	QUANTITY	UNIT COST	COST (\$000)
Primary Facility					6,697
Modify, Convert, Reactivate RDX/HMX Production Lines & Support Facs				LS	(6,697)
Subtotal					6,697
Contingency (10%) (Alteration & Retrofit)					670
Contract Cost					7,367
Supervision, Inspection & Overhead (5.5%)					405
Total Request					7,772
Total Request (Rounded)					7,800
(Installed Equipment - Other Appropriations)					(12,228)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Modify, realign, modernize and reactivate RDX/HMX production line facilities, install electrostatic precipitator on Boiler No. 5 at the Area B Steam Plant, provide facilities for new 1,500 CFM air compressor, replace two highway bridges over the Holston River that provide access to the X-Magazine Area.					
11. REQUIREMENT					
<b>PROJECT:</b> Alter, convert, modernize, replace production and support facilities to activate the RDX/HMX production line operations.					
<b>REQUIREMENT:</b> Modernization and activation of HMX/RDX production facilities is required to meet the production requirements for the Five Year Defense Plan (FYDP) and stockpiling requirements for ammunition end items.					
<b>CURRENT SITUATION:</b> The existing production capacity cannot meet the FYDP and stockpiling requirements and facilities need to be modernized and re-activated to meet the additional requirements.					
<b>IMPACT IF NOT PROVIDED:</b> If this project is not approved the production capacity will remain limited, FYDP and stockpiling requirements cannot be met, nor can the increased requirements that would be required in the event of mobilization.					

1. COMPONENT <b>ARMY</b>		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 84	
3. INSTALLATION AND LOCATION Holston Army Ammunition Plant, Kingsport, Tennessee			4. PROJECT TITLE Expand Lacquer Preparation Facility		
5. PROGRAM ELEMENT  78011A	6. CATEGORY CODE  226	7. PROJECT NUMBER B363-68 (5852439-S)	8. PROJECT COST (\$000)  910		
9. COST ESTIMATES					
ITEM	UNIT	QUANTITY	UNIT COST	COST (\$000)	
<b>Primary Facility</b>					
Building Addition			LS	781	
Paving & Walks			LS	(462)	
Site Work & Misc			LS	(142)	
Subtotal				(177)	
Contingency (10%) (Alterations & Retrofit)				781	
Contract Cost				78	
Supervision, Inspection & Overhead (5.5%)				859	
Total Request				47	
Total Request (Rounded)				906	
(Installed Equipment - Other Appropriations)				910	
				(2,094)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION Construct two story addition on south side of Lacquer Preparation Facility (Bldg 150) with freight elevator, electrical equipment room, and a covered loading dock on northwest side of the addition. Provide raw material storage area and lacquer vessel storage area. Extend existing paved area to provide access to the new addition.					
11. REQUIREMENT					
PROJECT: Construct an addition to the Lacquer Preparation Facility (Bldg No. 150).					
REQUIREMENT: Expansion of the Lacquer Preparation Activity is required to support the increase requirements of the Five Year Defense Plan (FYDP) and to meet stockpiling requirements for ammunition and items.					
CURRENT SITUATION: The existing capacity is not sufficient to meet the increased FYDP requirements, plus stockpiling, for Composition C-4 or other RDX plastic explosives.					
IMPACT IF NOT PROVIDED: If this project is not approved, the increased FYDP and stockpiling requirements for FY 86-89 cannot be met.					

1. COMPONENT <b>ARMY</b>		<b>FY 1985 MILITARY CONSTRUCTION PROJECT DATA</b>		2. DATE February 84	
3. INSTALLATION AND LOCATION Holston Army Ammunition Plant, Kingsport, Tennessee			4. PROJECT TITLE Modernize Composition C-4 Facility, Line 8		
5. PROGRAM ELEMENT <b>78011A</b>	6. CATEGORY CODE <b>226</b>	7. PROJECT NUMBER <b>B363-67 (5852054)</b>	8. PROJECT COST (\$000) <b>3,900</b>		
9. COST ESTIMATES					
ITEM	UNIT	QUANTITY	UNIT COST	COST (\$000)	
<u>Primary Facility</u>				3,362	
Convert/Modernize Line 8 for Composition C-4 Production			LS	(3,362)	
Subtotal				3,362	
Contingency (10%) (Alteration & Retrofit)				336	
Contract Cost				3,698	
Supervision, Inspection & Overhead (5.5%)				203	
Total Request				3,901	
Total Request (Rounded)				3,900	
(Installed Equipment - Other Appropriations)				( 8,100)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION Modernize production Line 8 - Work includes: Provision of backup power to Bldgs D-8 & G-8, dismantle the reactor leg shed on Bldg D-8 and install the piping inside, install new building equipment as needed, convert Bldgs E-8 & H-8 to continuous filtration, install weigh systems, install new elevator system and dock at Bldg G-8, new conveyor system from H-8 to I-8A, install heat pump in Lab Bldg O-7, install automatic palletizing equipment, construct a new building to house dryers, construct new barricades on 3 sides of Bldg N-8 (packout) and at one new building.					
11. REQUIREMENT					
<u>PROJECT:</u> Convert Line 8 from Composition-B to C-4 production.					
<u>REQUIREMENT:</u> The conversion from Comp-B to C-4 production is necessary to meet the requirements for C-4 in the Five Year Defense Plan (FYDP) and production requirements for stockpiling the material.					
<u>CURRENT SITUATION:</u> Line 8 is now configured for Comp-B production and in a layaway condition. The proposed project will convert Line 8 to meet the production requirements of C-4 and modernize the line's 1940s type equipment and facilities.					
<u>IMPACT IF NOT PROVIDED:</u> If this project is not approved, the capacity to produce C-4 will remain limited, FYDP requirements and stockpile requirements will not be met.					

1. COMPONENT <b>ARMY</b>		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 84	
3. INSTALLATION AND LOCATION Indiana Army Ammunition Plant, Charlestown, Indiana			4. PROJECT TITLE Propelling Charge Qualification Facility		
5. PROGRAM ELEMENT <b>78011A</b>	6. CATEGORY CODE <b>226</b>	7. PROJECT NUMBER <b>B519-44 (5852159)</b>	8. PROJECT COST (\$000) <b>1,900</b>		
9. COST ESTIMATES					
ITEM		UOM	QUANTITY	UNIT COST	COST (\$000)
<u>Primary Facility</u>					1,422
Building Construction		SF	13,000	109.40	(1,422)
<u>Supporting Facilities</u>					287
Electric Service				LS	(20)
Fire Protection System Valves, Hydrants				LS	(11)
Fuel Oil Storage & Piping				LS	(15)
Roads & Parking				LS	(15)
Storm Drainage				LS	(42)
Site Work				LS	(184)
Subtotal					1,709
Contingency (5%)					85
Total Contract Cost					1,794
Supervision, Inspection & Overhead (5.5%)					99
Total Request					1,893
Total Request (Rounded)					1,900
(Installed Equipment - Other Appropriations)					(232)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Construct propelling charge qualification building with rapid-action-deluge fire protection systems and required supporting facilities, utility connections and site work.					
11. REQUIREMENT					
PROJECT: Construct propelling charge qualification facility.					
REQUIREMENT: This project is required to provide a safe and adequate facility for trial loading, assessment and evaluation of propellant charges, loading and packing equipment, production line operations, and for training of new workers.					
CURRENT SITUATION: There is no existing facility that is dedicated to loading assessment and evaluation and these activities are now performed under make-shift conditions at several locations at the plant. These areas are not equipped with deluge sprinkler protection and other safety features and would not be available during a mobilization since they would be in use for urgent production. The proposed facility will provide safe, protected areas for trial loading of charges prior to full production, will provide a training area for new production workers and includes floor space for equipment evaluation and live testing prior to installation in production load lines.					
IMPACT IF NOT PROVIDED: The charge qualification, trial loading, production line equipment testing and new worker training must continue to be carried out under make-shift conditions with the attendant hazards to production workers.					

1. COMPONENT <b>ARMY</b>		2. DATE <b>FY 1985 MILITARY CONSTRUCTION PROJECT DATA</b>		3. DAYE <b>February 84</b>	
3. INSTALLATION AND LOCATION <b>Iowa Army Ammunition Plant, Middletown, Iowa</b>			4. PROJECT TITLE <b>Install Blow-Out-Roofs On Two Buildings</b>		
5. PROGRAM ELEMENT <b>78011A</b>		6. CATEGORY CODE <b>226</b>	7. PROJECT NUMBER <b>8575-43 (5855333-13)</b>		8. PROJECT COST (\$000) <b>690</b>
<b>9. COST ESTIMATES</b>					
<b>ITEM</b>		<b>UOM</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>
<b>Primary Facility</b>					<b>621</b>
Install Blow-Out-Roofs (See Block 10)					
Building 1-05-2				<b>LS</b>	<b>(155)</b>
Building 1-40				<b>LS</b>	<b>(466)</b>
<b>Subtotal</b>					<b>621</b>
<b>Contingency (5%)</b>					<b>31</b>
<b>Contract Cost</b>					<b>652</b>
<b>Supervision, Inspection &amp; Overhead (5.5%)</b>					<b>36</b>
<b>Total Request</b>					<b>688</b>
<b>Total Request (Rounded)</b>					<b>690</b>
<b>(Installed Equipment - Other Appropriations)</b>					<b>(0)</b>
10. DESCRIPTION OF PROPOSED CONSTRUCTION Demolish existing roof structures on two explosive operating buildings and replace with blow-out-roof systems. Work includes carpentry, sheet metal work, installation of light-weight roofing and repositioning and/or replacement of building lightning protection systems.					
11. REQUIREMENT					
PROJECT: Install blow-out type roof systems on two production buildings.					
REQUIREMENT: This project is required to effect compliance with explosive safety regulations that require explosive operating buildings to have roofs weighing 10 pounds per square foot, or less.					
CURRENT SITUATION: The existing deteriorated conventional roof structures are much heavier than the 10 pound maximum allowable weight. Should an explosive accident occur in the facilities, damage to the structure, to costly production equipment and, most importantly, injuries to production personnel would be of a much greater magnitude than if blow-out type roofs were in place.					
IMPACT IF NOT PROVIDED: If this project is not approved the undue hazard to worker safety will continue to exist as the explosive production operations must continue in areas with known safety deficiencies.					



<b>1. COMPONENT</b> ARMY		<b>FY 1985 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b> February 84	
<b>3. INSTALLATION AND LOCATION</b> Iowa Army Ammunition Plant, Middletown, Iowa			<b>4. PROJECT TITLE</b> Upgrade Air Conditioning, Two Buildings			
<b>5. PROGRAM ELEMENT</b> 78011A	<b>6. CATEGORY CODE</b> 226	<b>7. PROJECT NUMBER</b> B575-44 (5855333-16)	<b>8. PROJECT COST (\$000)</b> 1,100			
<b>9. COST ESTIMATES</b>						
<b>ITEM</b>	<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>		
<b>Primary Facility</b>				998		
Bldg 1-40, A/C Upgrade			LS	(574)		
Bldg 1-61, A/C Upgrade			LS	(320)		
Electrical Work & Controls			LS	(104)		
<b>Subtotal</b>				998		
<b>Contingency (5%)</b>				50		
<b>Contract Cost</b>				1,048		
<b>Supervision, Inspection &amp; Overhead (5.5%)</b>				58		
<b>Total Request</b>				1,106		
<b>Total Request (Rounded)</b>				1,100		
(Installed Equipment - Other Appropriations)				(0)		
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION</b> Install 120 ton and 80 ton electrically driven chillers in Buildings 1-40 and 1-61 respectively. Work includes piping, valves, controls, duct systems, air handling units and electric service.						
<b>11. REQUIREMENT</b>						
<b>PROJECT:</b> Install air conditioning systems in two production buildings.						
<b>REQUIREMENT:</b> Modern air conditioning systems are required to replace an aged, worn and inefficient existing central cooling system.						
<b>CURRENT SITUATION:</b> The existing 600 ton central cooling system will be replaced by two units totaling 200 tons. Its 30 year old cooling tower is deteriorated and beyond economical repair and the 15 year old steam-absorption chiller is oversized for the present cooling load, is operating very inefficiently, and is 5 years beyond the normal period at which major reconditioning is required. The proposed replacement with units that will provide the cooling requirement with only one-third of the existing tonnage is the most economical means of providing cooling for the two explosive production buildings.						
<b>IMPACT IF NOT PROVIDED:</b> If this project is not approved, the existing system will require a large expenditure for rebuild and for cooling tower replacement and the high costs of cooling will continue.						

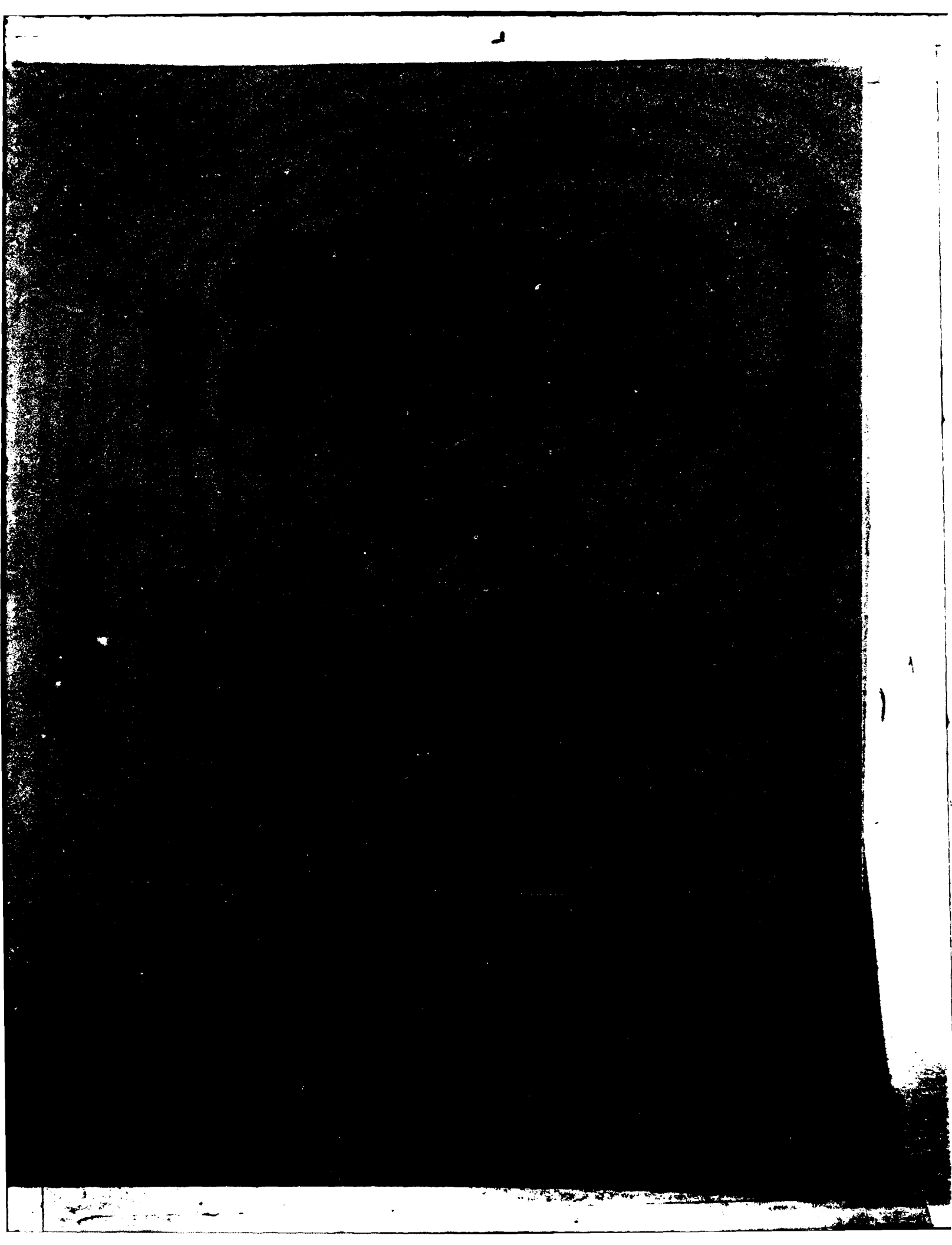
1. COMPONENT <b>ARMY</b>		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 84	
3. INSTALLATION AND LOCATION Louisiana Army Ammunition Plant, Shreveport, Louisiana			4. PROJECT TITLE Chemical Laboratory		
5. PROGRAM ELEMENT 78011A	6. CATEGORY CODE 226	7. PROJECT NUMBER B435-41 (5852507)	8. PROJECT COST (\$000) 1,600		
9. COST ESTIMATES					
ITEM	UNIT	QUANTITY	UNIT COST	COST (\$000)	
<b>Primary Facility</b>					
Chemical Laboratory	SF	7,040	143.90	1,141 (1,013)	
Acid & Alkali Storage Bldg (1)			LS	(11)	
Flammable Liquid Storage Bldg (1)			LS	(13)	
Oxidizer Storage Bldg (1)			LS	(5)	
Explosives Magazines (4)			LS	(99)	
<b>Supporting Facilities</b>					
Electric Service				288 (72)	
Water, Gas, Sewer				(126)	
Paving, Site Improvement & Fencing				(90)	
Subtotal				1,429	
Contingency (5%)				71	
Contract Cost				1,500	
Supervision, Inspection & Overhead (5.5%)				83	
Total Request				1,583	
Total Request (Rounded)				1,600	
(Installed Equipment - Other Appropriations)				(0)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION Construct chemistry lab with temperature and humidity control, explosive testing rooms/cubicles with blow-out wall and roof panels, non-explosive testing and analysis areas, rest/change rooms, break/lunch room, chemical storeroom and library/office. Toxic fume vents to be provided for hoods/ovens. Included are seven small storage buildings and covered ramps.					
11. REQUIREMENT					
<b>PROJECT:</b> Construct chemical laboratory.					
<b>REQUIREMENT:</b> A safe and adequate chemical laboratory is required for raw material testing, explosive end-product analyses and analysis of water, production chemical processes, waste water, environmental processes and EPA data.					
<b>CURRENT SITUATION:</b> The existing wood frame laboratory, constructed in 1941, has been augmented with lean-to additions to provide additional floor space, but does not meet explosive safety requirements and cannot be economically modified to effect compliance. The building is not acceptable for processing explosive samples in that physical protection is not afforded personnel performing unrelated work. Its floor space is inadequate in spite of tacked-on additions, and emergency exits are restrictive. The toxic fume vent system is hazardous to health because draw-back of fumes or gases can occur and controlled testing temperature and humidity levels cannot be obtained.					
<b>IMPACT IF NOT APPROVED:</b> If this project is not approved the analysis of explosives raw materials and end products must continue to be performed in an inadequate and unsafe facility.					

1. COMPONENT <b>ARMY</b>		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 84	
3. INSTALLATION AND LOCATION Radford Army Ammunition Plant, Radford, Virginia			4. PROJECT TITLE 120 mm Propellant Blending/ Packout Facility		
5. PROGRAM ELEMENT 78011A		6. CATEGORY CODE 226	7. PROJECT NUMBER B224-89 (5852229A)		8. PROJECT COST (\$000) 460
9. COST ESTIMATES					
ITEM		UNIT	QUANTITY	UNIT COST	COST (\$000)
Primary Facility:					419
Alterations to Bldg No. 3712:					
Architectural & Structural Work				LS	(164)
Mechanical				LS	(147)
Electrical				LS	(68)
Demolition				LS	(32)
Site Work					(8)
Subtotal					419
Contingency (5%)					21
Contract Cost					440
Supervision, Inspection & Overhead (5.5%)					24
Total Request					464
Total Request (Rounded)					460
(Installed Equipment - Other Appropriations)					(69)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Alter existing production building for 120 mm (355 mm stick) propellant blending and packout; work includes rehab of building interior, fire protection sprinkler system, heating and A/C using equipment on hand, and provisions for installation of production equipment.					
11. REQUIREMENT					
PROJECT: Alter existing production building for explosive blending and packout.					
REQUIREMENT: A blending and packout facility for 120 mm Propellant is required that will produce 180,000 pounds per month to meet the projected requirement for that item.					
CURRENT SITUATION: Radford AAP has at present a blending and packout capability of only 15,000 pounds per month. The proposed facility renovation is the most economical means of providing the capacity to meet the projected requirement.					
IMPACT IF NOT PROVIDED: If this project is not approved, the capability to meet the projected ammunition requirement will not exist.					

<b>1. COMPONENT</b> ARMY		<b>FY 1985 MILITARY CONSTRUCTION PROJECT DATA</b>			<b>2. DATE</b> February 84	
<b>3. INSTALLATION AND LOCATION</b> Radford Army Ammunition Plant, Radford, Virginia			<b>4. PROJECT TITLE</b> Replace Explosion Protection Barricades			
<b>5. PROGRAM ELEMENT</b> 78011A		<b>6. CATEGORY CODE</b> 226	<b>7. PROJECT NUMBER</b> B224-90 (5855326-13)		<b>8. PROJECT COST (\$000)</b> 2,150	
<b>9. COST ESTIMATES</b>						
ITEM			UOM	QUANTITY	UNIT COST	COST (\$000)
Primary Facility						1,488
Barricades (10)					LS	(1,488)
Supporting Facilities						430
Electric Service					LS	(114)
Utilities					LS	(140)
Demolition					LS	(176)
Subtotal						1,918
Contingencies (5%)						96
Total Contract Cost						2,014
Supervision, Inspection & Overhead (5.5%)						111
Total Request						2,125
Total Request (Rounded)						2,150
(Installed Equipment - Other Appropriations)						(0)
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION</b> Removal and replacement of barricades for 10 active propellant production buildings. Work includes removal and reinstallation of utilities, process piping and duct work attached to or passing through the barricades and removal and replacement of attached roofs, floor structures and escape chutes and electrical upgrade.						
<b>11. REQUIREMENT</b> <u>PROJECT:</u> Replacement of 10 double-revetted, wooden, earth filled barricades at Radford Army Ammunition Plant (AAP). This project is the sixth increment of an annual barricade replacement program at this plant. <u>REQUIREMENT:</u> This project is required to provide adequate, safe barricades to enable the AAP to operate within existing intraline quantity distances. <u>CURRENT SITUATION:</u> Most of the barricades at this AAP were originally erected during 1940-41. For some time it has been necessary to do extensive repair work each year to keep them in a structurally safe and sound condition. Because of the accelerating rate of deterioration, repair can no longer keep pace with requirements. Radford AAP has 240 barricades at explosive production buildings that are required to maintain current and mobilization production schedules. Of this number, 142 can be maintained in satisfactory condition for the next 20 years and projects will be submitted in future program years to replace the remaining unserviceable barricades --the most deteriorated ones first. <u>IMPACT IF NOT PROVIDED:</u> Without adequate barricades, Radford AAP will not be able to operate within existing intraline quantity distances. <u>ADDITIONAL:</u> Explosion protection barricades protect workers, buildings and production equipment and prevent blast propagation to other explosive production buildings in the event of mishap.						

1. COMPONENT <b>ARMY</b>		FY 1985 MILITARY CONSTRUCTION PROJECT DATA		2. DATE February 84	
3. INSTALLATION AND LOCATION Radford Army Ammunition Plant, Radford, Virginia			4. PROJECT TITLE Replace Barricade and Process Building		
5. PROGRAM ELEMENT  78011A		6. CATEGORY CODE  226	7. PROJECT NUMBER B224-91 (5855326-21)		8. PROJECT COST (\$000)  330
9. COST ESTIMATES					
ITEM		UAS	QUANTITY	UNIT COST	COST (\$000)
<u>Primary Facility</u>					294
Demolish Existing Barricade				LS	(37)
Construct New Barricade				LS	(106)
Demolish Building 1878				LS	(21)
Construct Explosive Finishing Building				LS	(50)
Loading Shed, Dock Roof & Supports				LS	(42)
Blower House (Metal Bldg)				LS	(1)
Sprinkler House (Firehouse)				LS	(1)
Mechanical, Electrical & Fire Protection				LS	(36)
Subtotal					294
Contingency (5%)					15
Contract Cost					309
Supervision, Inspection & Overhead (5.5%)					17
Total Request					326
Total Request (Rounded)					330
(Installed Equipment - Other Appropriations)					(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION Demolish multi-story barricade and Bldg 1878 and replace with one-story barricade and one-story explosive finishing building. Construct loading shed with roof over existing dock, blower house, sprinkler house and install fire protection system.					
11. REQUIREMENT					
PROJECT: Demolish existing multi-story building and barricade and construct a new one story building with a one-story high barricade.					
REQUIREMENT: An adequately sized building with an explosion protection barricade is required to provide space within a barricaded area for the weighing and finish processing of explosives in a safe and efficient manner.					
CURRENT SITUATION: An existing small, multi-story structure (Bldg 1878), a former can pack house now used as a propellant finishing building, has insufficient floor area for the explosive weighing and finishing operations and its protective barricade, built during World War II, is also multi-story, badly deteriorated and requires replacement. A cost study has established that demolition of these facilities and replacement with a one-story building and one-story barricade is the least costly means of providing the required facilities (\$79,700 less). There is no other adequately sized, suitable facility convenient to the finishing area to which the operation can be transferred.					
IMPACT IF NOT APPROVED: The finishing operations will continue in the inadequately sized facility with marginal safety for production workers.					

<b>1. COMPONENT</b> ARMY		<b>FY 1985 MILITARY CONSTRUCTION PROJECT DATA</b>		<b>2. DATE</b> February 84	
<b>3. INSTALLATION AND LOCATION</b> Scranton Army Ammunition Plant, Scranton, Pennsylvania			<b>4. PROJECT TITLE</b> Replace Water Distribution System		
<b>5. PROGRAM ELEMENT</b> 78011A	<b>6. CATEGORY CODE</b> 226	<b>7. PROJECT NUMBER</b> B258-12 (5852359)	<b>8. PROJECT COST (\$000)</b> 2,050		
<b>9. COST ESTIMATES</b>					
<b>ITEM</b>	<b>U/M</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>COST (\$000)</b>	
<b>Primary Facility</b>				1,846	
Demolish Existing & Install New Water Distribution Piping as follows:					
Production & Forge Shops			LS	(721)	
Heat Treatment & Joiner Buildings			LS	(154)	
Exterior Process Water			LS	(316)	
Production Shop Fire Protection			LS	(122)	
Forge Shop Fire Protection			LS	(129)	
Subway Tunnels			LS	(113)	
Exterior Fire Protection			LS	(291)	
Subtotal				1,846	
Contingency (5%)				92	
Contract Cost				1,938	
Supervision, Inspection & Overhead (5.5%)				107	
Total Request				2,045	
Total Request (Rounded)				2,050	
(Installed Equipment - Other Appropriations)				(55)	
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION</b> Construct new plant-wide water distribution system to completely replace existing system. All below ground piping is to be replaced and the majority of the exposed piping above ground. Work includes excavation and backfill and required patching of existing paved areas.					
<b>11. REQUIREMENT</b>					
<b>PROJECT:</b> Complete replacement of existing water distribution system.					
<b>REQUIREMENT:</b> During the operation of the plant, water leaks occur as the system wears out. The existing system is over eighty years old, having been installed during the original construction of the installation during the period from 1903 to 1908. When leaks occur, the main valve which controls all water to the installation must be turned off in order to perform the repairs. This is true even for the smallest of the main pipes, as the age of the pipes, along with their deteriorated state, results in more leaks as repairs are attempted.					
<b>CURRENT SITUATION:</b> When leaks occur, the main valve must be used to shut off the more serious leaks, and repairs are made. In recent years, more and more repairs are necessary. The deteriorated pipes have become a maintenance intensive item, requiring a great amount of manpower to maintain.					
<b>IMPACT IF NOT PROVIDED:</b> If this project is not approved, waste of water will continue and maintenance on other necessary items will be deferred in order to work on the water system. The system is at the stage where complete replacement is necessary.					



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